Red PCT/PTC 22 DEC 2004

PATENT COOPERATION TREATY

RECEIVED 2.3 SEP 2004

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
P51355	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/month/year	r) Priority date (day/month/year)					
PCT/US03/20751	02 July 2003 (02.07.2003)	02 July 2002 (02.07.2002)					
International Patent Classification (IPC)	or national classification and IPC	1 02 July 2002 (02:07:2002)					
IPC(7): A61K 39/44, 39/395 and US Cl.	: 424/181.1						
Applicant							
SMITHKLINE BEECHAM CORPORAT	TION						
This international prelimina Examining Authority and is	ary examination report has been prepart from the property of the applicant according to the accordi						
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a	total of sheets.	,					
This report contains indicate	ions relating to the following items:						
I Basis of the repor	rt						
II Priority							
III Non-establishmen	it of report with regard to novelty in	ventive step and industrial applicability					
IV Lack of unity of i	invention	venuve step and industrial applicability					
57							
E Suiteme	ent under Article 35(2) with regard to	novelty, inventive step or industrial					
	tions and explanations supporting suc	th statement					
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand	Date of						
	Date of comp	pletion of this report					
9 January 2004 (29.01.2004)	30 August 200	4 (30.08.2004)					
Name and mailing address of the IPEA/US	Authorized offi	ion //					
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents							
P.O. Box 1450	Marianne DiB	ring Ph.D. //\V/A/A//V\\ Y/M/A					
Alexandria, Virginia 22313-1450 acsimile No. (703) 305-3230	Telephone No.	ALLO, TIED. // COOL OCCUPO					



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application	No.			
PCT/US03/20751					

ı	T.	Bas	is of the report
ŀ			
l	1.	With	regard to the elements of the international application:*
ĺ		\forall	the international application as originally filed. the description:
l		لاعا	
ļ			pages NONE , filed with the demand pages NONE , filed with the letter of
١		abla	
ı			the claims:
			pages 7 as originally filed
ŀ			pages NONE, as amended (together with any statement) under Article 19
ı			pages NONE , filed with the demand
ĺ		~~	pages NONE, filed with the letter of
		M	the drawings:
l			pages NONE , as originally filed
			pages NONE , filed with the demand
			pages NONE, filed with the letter of
		\boxtimes	the sequence listing part of the description:
			pages 1/3-3/3 , as originally filed
			pages NONE, filed with the demand
			pages NONE , filed with the letter of
2	2. '	Wift	regard to the language, all the elements marked above were available or furnished to this Authority in the
	7	Thes	which is:
	ļ	4	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Į	┙	the language of publication of the international application (under Rule 48.3(b)).
			the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3)
			55.2 and/or 55.3).
3	i. 1	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	i	nten	national preliminary examination was carried out on the basis of the sequence listing:
		\mathbf{X}	contained in the international application in printed form.
	إ	\boxtimes	filed together with the international application in computer readable form.
	Ļ	ᆗ	furnished subsequently to this Authority in written form.
	Ĺ	4	furnished subsequently to this Authority in computer readable form.
	L		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
			international application as filed has been furnished.
	Γ		
		<u> </u>	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
	Г	_	
4	· L	ٔ لــ	The amendments have resulted in the cancellation of:
			the description, pages NONE
			the claims, Nos. NONE
		_,	the drawings, sheets/fig NONE
5.	L	_] :	This report has been established as if (some of) the amendments had not been made since they been they
_	_		
*	Re	ршсе	ment sheets which have been firmished to the receiping Office in the second in the sec
**	S r	eport sy rep	as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Placement sheet containing such amendments must be referred to under item 1 and annexed to this report.
_		-	·

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/20751

V. Reasoned statement under Rule 66.2(a) citations and explanations supporting su	(ii) with rega ich statement	rd to novelty, inventive step or industrial a	pplicability;
1. STATEMENT			
Novelty (N)	Claims	1-6	YES
·	Claims	NONE	NO
Inventive Step (IS)	Claims	NONE	YES
	Claims	1-6	NO
Industrial Applicability (IA)	Claims	1-6	YES
		NONE	NO
R&D Focus Drug News teaches the humanized mA to mice and humans. R&D Focus Drug News does not teach the antibody US Patent No. 6,171,586 B1 discloses humanized a aqueous formulation comprising a polyol such as st succinic acid buffer at pH range from about 4.5 to (especially Abstract, column 2 at lines 25-29, column 2 and claims). US Patent No. 6,171,586 B1 further thawing of the formulation and are stable at a temper 25-34). It would have been prima facie obvious to one of or antibody or antibody conjugated taught by R&D For US Patent No. 6,171,586 B1.	y formulated as mAbs at concent crose or trehald about 6.0, and some 6 at lines 38 rediscloses that erature of about redinary skill in the course of the cou	trations ranging from about 0.1 mg/ml to about 50 ose in the concentration range from about 1% to a administration of the said antibody formulations to -67, column 7 at lines 1-3, column 2 at lines 1-43, the said antibody formulations are stable following to 2-8 degrees C for at least one year (especially countered to the art at the time the invention was made to have s in the formulation disclosed by	O mg/ml in stable bout 15% w/v, humans , examples 1 and g freezing and lumn 2 at lines formulated the
One of ordinary skill in the art at the time the inver aqueous formulations of the antibody taught by R& US Patent No. 6,171,586 B1 and for long term stor	D Focus Drug 1	News that are stable following freezing and thawir	reate stable ig as taught by
Claims 1-6 meet the criteria set out in PCT Article can be made or used in industry.	33(4), and thus	meet industrial applicability because the subject n	natter claimed
US 6,171,586 B1 (LAM et al) 09 January 2001 (09	9.01.2001), see	entire document.	